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# INFORMATION REPORT INFORMATION REPORT

### CENTRAL INTELLIGENCE AGENCY

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OUNTRY	Hungary	REPORT	
SUBJECT	Air Force Ground Fighter Intercept	DATE DISTR.	3 No. 1657
re;	Sighter plane intercept plans.	NO. PAGES REQUIREMENT NO.	11 RD
DATE OF NFO. PLACE & DATE ACQ.	SOURCE EVALUATIONS ARE DEFINITIVE. APPR	REFERENCES	Rul#183 nt is tentative.
	Attached to the Report are nine ske	ъ)	Fighter intercept plan for penetration direction No. 1 (Enclosure 2) Fighter intercept plans for penetration directions No. 2-7 (Enclosures 3-8)
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REPORT

COUNTRY Hungary

SUBJECT Hungarian Air Force Ground Fighter Intercept

NO. OF PAGES 10

DATE DISTR. 7 June 1957

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#### Hungarian Air Force Ground Fighter Intercept

#### General Information

1. The Hungarian People's Republic, under the guidance of the Soviet Union and in conjunction with Czechoslovakia and Rumania, worked out a mutual procedure for the intercept of enemy aircraft in case of an armed conflict. These procedures tock into consideration the possible directions of attack, type of aircraft, and the number, speed and altitude of the enemy formation. The intercepts were worked out in relation to the respective defense commands with the above mentioned factors in mind. Operational exercises were worked out in theory about 100 times during source's assignment at Therar Airfield and were put into actual practice about five times between October 1955 and November 1956.

#### Basis of Operational Exercises

2. All defense exercises were usually based on an ensury formation of thirty bomber aircraft with fighter escort. Against this formation a regiment of Hungarian or Soviet fighter interceptors was to be used at one time. Intercept exercises were always based on the size of the attacking force. If an attacking force numbered 90 bombers, then a division of fighter-interceptors would strike the enemy formation. A flight of four enemy hombers would be attacked by a squadron, two flights of fighters. Intercept exercises also were always based on the assumption that the enemy force would be flying at an altitude of up to 10,000 meters and at a speed of 500 kilometers par hour. In case of a penetration by an enemy bomber wait with fighter escort, a feinting attack by a small formation of fighters would be made to draw off the fighter escort bafers the major intercept attack was begun.

#### Expected Directions of Attack

3. Inclosure 1 is a sketch of the seven main directions of expected aerial attack against or through Hungary. It also illustrates the fighter divisions' respective "lines of alent" (outer circle) and "lines of controlled intercept" (inner circle). When an enemy force reached the outer circle, fighter units would receive a final alert prior to scramble. The inner circle indicates the division control center's effective GCI range. The number of intercepts would depend upon the size of the enemy formation but the interceptor fighters would always outnumber the enemy formation by at least two to one. (The wartime TO) & E of each regiment would include ever 60 aircraftl.) The regiment would be scrambled for assembly over a given point; in good weather it would be usually over Fapa Airfield and in bad weather over the field's outer radio beacon. In figuring the loss of interceptors it was estimated that 25 to 50 percent of the fighter interceptors would be lost in the attack. The first intercept attack would be made by the regiment in one large close formation. The second intercept would be made in squadron formation

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and finally in flight formation. Generally a fighter division or regiment was thought capable of making a maximum of three attacks, but this number was more likely to be one or two. If the altitude of the enemy formation was below 8 or 9000 meters, the attack would be from the right and below the formation. If the enemy formation was at 8 or 9000 meters, the attack would be made from five hundred meters below and two kilometers behind the enemy formation. If the enemy formation was above 9000 meters, the intercept would be made from 500 meters above and two kilometers behind the target. The above procedures applied to all Hungarian and Soviet fighter divisions pased in Hungary.

#### Intercept of Enemy Attack from Direction #1

- 4. Inclosure #2 is a sketch of the fighter intercept plan for direction #1. Numbers in parentheses conform to numbers on the sketch.
  - (1) R. V. P. RIASZTASI VONAL. Line of Alert for the Papa Division. When the target formation reached this line, which was three hundred kilometers from Papa Airfield (N 47-20, E 17-28), the Papa Special Fighter Division would scramble a regiment for assembly over the airfield in position for a directed intercept.
  - (2) R. V. T. RIASZTASI VONAL. Line of Alert for the Taszar Fighter Division. When the enemy formation reached this 300 kilometer alert line, the Taszar Fighter Division would scramble and position its fighter regiment for intercept between RSZTER-GOM (N 47-47, E 18-45) and Lake Velence (N 47-13, E 18-35). The Taszar Division was charged with taking over the attack from the Papa Division.
  - (3) I.V. P. IRANY VONAL. Line of Controlled Intercept for the Papa Special Division. When the enemy foraztion reached this line, the Papa Division would go under GCI control for the intercept.
  - (4) I.V. T. IRANY VONAL Line of Controlled Intercept for the Taszar Division.
  - (5) EV. P. ELFOGASI VONAL. Line of intercept for the Papa Division. This was the line where the first attack would be initiated by the Papa Division against the enemy formation.
  - (6) R.V. K. RIASZTASI VONAL. Line of Alert for the Receivemet Fighter Division. When the enemy formation reached this 300 kilometer alert line the division would scramble a regiment for assembly over a given point.
  - (7) I.V. K. IRANY VONAL. Line of Controlled Intercept for the Kecskemet Division.
  - (8) E.V. T. RIFGASI VONAL. Line of Intercept for the Taszar Division. When the enemy formation reached this line, the Taszar regiment's lead pilot would rock his wings indicating to the Papa regiment that it would take over the attack. This approx-

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imate line of intercept was between ESZTERGOM and Lake Velence.

- (9) La, V. 2/3/ P. LEVA ASI VONAL. Break-off Line for the Papa Regiment. At this line two squadrons of the Papa regiment would break off the attack and return to base. One squadron, together with the Taszar Regiment, would continue the attack.
- (10) E.V. K. ELFOGASI VONAL. Line of Intercept for the Kecskemet Regiment. When the enemy formation reached this line, running approximately along the Danube River, the Kecskemet Regiment would attack.
- (11) L.V. 1/3 P.LEVALASI VONAL. Break-off Line for the Papa Regiment. At this line the last squadron of the Papa Regiment would break off the attack and return to home base or to the nearest airfield.
- (12) L.V. 2/3 T. LEVALASI VONAL. Break-off Line for the Taszar Regiment. At this line two squadrons of the Taszar Regiment would break off the attack to be replaced by the Kecskemet Regiment.
- (13) B.V. R. ELFOGASI VONAL. Line of Intercept for Rumania. At this line the Rumanian Air Force would take over the intercept of the enemy formation, together with one squadron of the Kecskemet Regiment.
- (14) L.V. 1/3 T. LEVALASI VONAL Break-off Line for the Last Squadron of the Taszar Regiment.
- (15) L.V. 2/3 K. LEVALASI VONAL. Break-off Line for the Kecskemet Regiment. Two squadrons of the Kecskemet Regiment would break off the attack at this point while the last squadron would remain with the attacking Rumanian fighters.

## Intercept of Enemy Attacks from Other Directions

- 5. Reference is made to Inclosures 3, 4, 5, 6, 7, and 8, sketches of fighter intercepts from saix other directions. These intercept attacks were planned along the same lines as mentioned in paragraph 4. If one of the fighter divisions for one reason or another could not participate in the attack, then one of the neighboring divisions was assigned to intercept the enemy formation all along the line.
- f. There was mutual coordination and orientation in air defense procedures among the USSR and the satellite nations. For example, if an enemy air penetration of Poland occurred, then the Moscow flight control center would be notified by direct telephone and in turn would notify the control centers of all Warsaw Pact nations. All satellite countries had direct telecommunication with each other. If for some reason one nation could not intercept the target over its respective area, then one of the neighboring nations would assume or continue the attack. If the air defense forces of one nation would be rendered unfit for fighting, then another satellite nation would undertake its defense, depending on the existing situation.

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forces of the Warsaw Pact nations would be integrated with each other. This was substantiated by a Hungarian ministerial decree of October 1956, which made the Russian language mandatory as a second language in the Hungarian armed forces for the purpose of better coordination and direction control among the Warsaw Pact nations. It was also agreed among the Warsaw Pact nations that all MIG-15s or 17s would be allowed to land at any of the satellite countries' airfields. This provision was made in order to allow the MIGs to refuel because of their short-range capability.

in case of a large-scale enemy attack over Hungary, some of the fighter airfields would be deserted while others would be over-crowded.

#### Results of 1 16 Summer Air Force Exercises

7. The experiences of the 1956 combined summer all defense exercises over Hungary in which sounce participated proved that the Hungarian Air Force, combined with the social and other Satellite air forces, could intercept every barget between an altitude of 1000 and 12,000 meters. On the other hand, the exercises proved also that with the present Hungarian personnel and technical equipment, the Hungarian Air Force would be incapable of carrying out the mission against targets below 1000 meters and above 14,000 meters. Therefore, source stated it would be advantageous to carry out an enemy attack below or above the above-mentioned altitudes. The 1956 summer exercise also proved that in case of a large number of targets, the personnel of the early warning control centers (H.A.T.) became nervous and hesitant, rendering them incapable of making to may decisions. As this was due to the fact that personnel at regiment control centers were not properly trained, the division HAPs were afraid to pass targets over to a regiment, and consequently chaos ensued at the division HAPs. Another short-coming of the HAP sequencel was that they were trained for the tracking of single to gets; only recently was there a strong frive to train regiment HAP personnel and to integrate the regiment HAP as an independent control center within the Hungarian air defense system.

#### Detailed Intercept from Direction #1

в.	Reference	is made to	Inclosur	e #9,			sketch of a de-	
	talled gr	ound-contro	olled inte	rcept	exercise	D2.80.1	on a simulated a	t
							Source's sketch	at-
	was based	on actual	exercises	while	he was	a GCE	radar control of-	
	ficer.							

rector to issue timely corrections to the interceptor, the rate at which the radar information was presented had to be sufficiently high. Intercept capability was greatly improved by the MIG-17 PF (Frisco - D) with the scan odd radar.

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9. The intercept exercise on Inclosure #9 was worked out to actual scale and grid numbers and as close to reality as

from actual experience. The participating interceptors in the exercise were MIG-15s and 17s. It is based on the peacetime TOME of three squadrons per regiment. Numbers in parentheses refer to numbers below on the sketch.

- (1) 1000 hours. The controller received his first radar report of an approaching enemy formation at the division control center. The plotters at all the control centers plotted the following data on the plotting boards: Target number 1401, Time, 1000 hours, Altitude 10,000 meters, Velocity 800 kilometers, Number and Type of Aircraft 30 B-57s. At the same time, the special Soviet fighter division at Papa alerted a fighter regiment since the penetration was to be in their area of responsibility.
- (2) 1005 hours. At this point the Papa division scrambled a regiment for assembly over the sirfield at a height of 1000 meters (see point 2A). At 1012 hours Papa would direct its interceptors to an altitude of 10,000 meters with a heading of 2800 degrees and a speed of 600 kilometers per hour at maximum variage tion.
- (3) 1011 hours. At this point of the enemy penetration, the Tase ear fighter division would scramble one of its regiments for assembly over a given point at a height of 1000 meters. Scrambles were executed by individual flights of four eiroraft. The time for scramble and assembly was seven minutes (see point jA).
- (4) 1012 hours. The ground controller at the Papa Control Center (HAP) issued the following directions to its interceptor; head-ing 200 decrees, height 10,000 meters at maximum variation. These directions were actually given at point 24 on the sketch.
- (5) 1019 hours. At this point of the penetration the Papa ground controller gave the following corrections to its interceptor: Right turn bank 30 degrees, speed 800 kilometers per hour, height 100 meters target in front right.
- (6) 1020 hours. At this point the Taszar division ground controller gave the following directions to its interceptors: heading 20 degrees, speed 600 kilometers per hour, height 10,000 meters (see point 3A).
- (7) 1020:30 hours. At this point the Papa ground controller began to give directions for the actual intercept. The attack was to continue until the pilot received orders to break off the attack. Fighters usually used a V-formation in attacking a bomber formation, while a scissor formation was used against a single target.
- (8) 1021 hours. When the enemy formation reached this point, the Recskemet Fighter Division alegated one of its regiments and the ground controller acrambled it for assemly over a given point (see point 8A).

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- (9) 1028 hours. When the enemy formation reached this point, the Kecskemet ground controller gave the following directions to its intercept: heading 30 degrees, altitude 10,000 meters, speed 600 kilometers per hour at maximum variation.
- (10) 1033 hours. At this point the Taszar ground controller gave the following corrections to his interceptors: right turn, bank 30 degrees, heading 100 degrees, speed 800 kilometers per hour, target in front.
- (11) 1034 hours. At this point two squadrons of the Papa regiment would be directed to break off the attack and return to base. At the same time, the Taszar regiment would begin its attack against the target.
- (12) 1035 hours. At this point the Kecskemet ground controller gave the following directions to his interceptors: turn right, bank 30 degrees, heading 100 degrees, altitude 10,000 meters, speed 600 kilometers per hour.
- (13) 1036 hours. At this point, the Papa regiments last squadron would be directed to break off the attack and return to base.

  The squadrons would execute a left turn at a directed heading of 260 degrees, at a speed of 600 kilometers per hour.
- (14) 1037 hours. At this point, two squadrons of the Taszar regiment would be ordered to break off the attack and return to base by executing a left bank to a directed heading of 260 degrees, speed 600 kilometers per hour. At the same time, the Kecskemet regiment would attack the target.
- (15) 1053 hours. The Rumanian fighters would be scrambled at this point and directed against the target with a right-turn bank of 30 degrees, heading 100 degrees, speed 850 kilometers per hour.
- (16) 1054:30 hours. At this point the last squadron of the Tassar regiment would be directed to break off the attack and probably land at Arad Airfield, Rumania.
- (17) 1055 hours. At this point two squadrons of the Kecskemet Regiment would be directed to break off the attack and return to base or to an alternate airfield, directed heading 250 degrees velocity 600 kilometers per hour. The Rumanian Air Force would then attack.

#### Planned Intercept from Direction No 2

- 10. Inclosure 3 is a sketch of a planned ground controlled intercept from Direction No. 2. Numbers in parentheses below refer to numbers on the sketch.
  - (1) R.V.P. Line of Alert for the Papa Fighter Division.
  - (2) R.V.T. Line of Alert for the Taszar Fighter Division.
  - (3) I.V.P. Line of Controlled Intercept for the Papa Division.

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- (4) E.V.P. Line of Actual Intercept for the Papa Division.
- (5) I.V.T. Line of Controlled Intercept for the Taszar Division.
- (6) I.V.K. Line of Controlled Intercept for the Kecskemet Fighter Division.
- (7) E.V.T. Line of Actual Intercept for the Taszar Division.
- (8) L.V. 2/3 P. Break-off Line for 2/3 of the Papa Division.
- (9) E.V.K. Line of Actual Intercept for the Kecskemet Division.
- (10) L.V. 1/3 P. Break-off Line for the last third of the Papa Division.
- (11) L.V. 2/3 T. Break-off Line for 2/3 of the Taszar Division.
- (12) L.V. 1/3 T. Break-off Line for the last third of the Taszar Division.
- (13) L.V. 2/3 K. Break-off Line for 2/3 of the Kecskemet Division.

#### Planned Intercept from Direction No.3

- Inclosure 4 is a sketch of a planned ground\_controlled intercept from Direction No. 3. Numbers in parentheses below refer to numbers on the sketch.
  - (1) R.V.P. Line of Alert for the Papa Division.
  - (2) I.V.P. Line of Controlled Intercept for the Papa Division.
  - (3) R.V.K. Line of Alert for the Kecskemet Fighter Division.
  - (4) E.V.P. Line of Actual Intercept for the Papa Division.
  - (5) E.V.K. Line of Actual Intercept for the Kecskemet Division.
  - (6) L.V. 2/3 P. Break-off Line for the 2/3 of the Papa Division.
  - (7) E.V.Sz. Line of Intercept for the USSR.
  - (8) L.V. 1/3 P. Preak-off Line for the last third of the Papa Division
  - (9) L.V. 2/3 K. Break-off Line for 2/3 of the Kecskemet Division.

#### Planned Intercept from Direction No. 4.

- 12. Inclosure 5 is a sketch of a planned ground controlled intercept from Direction No. 4. Numbers in parentheses below refer to numbers on the sketch.
  - (1) R.V.T. Line of Alert for the Taszar Fighter Division, including the Sarmellek Fighter Regiment.

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- (2) I.V.T. Line of Controlled Intercept for the Taszar Division or Sarmellek Regiment.
- (3) R.V.K. Line of Alert for the Kecskemet Fighter Division.
- (4) B.V.T. Line of Actual Intercept for the Taszar Division or the Sarmellek Regiment.
- (5) E.V.K. Line of Actual Intercept for the Recekemet Division.
- (6) L.V. 2/3 T. Break-off Line for 2/3 of the Taszar Division.
- (7) E.V. Co. Line of Actual Intercept for Ozechoslovakia.
- (8) L.V. 1/3 T. Break-off Line for the last third of the Taszar Division.
- (9) L.V. 2/3 K. Break-off Line for 2/3 of the Kesskemet Division.

#### Planned Intercept from Direction No. 5

- 13. Inclosure No. 6 is a sketch of a planned ground controlled intercept from Direction No. 5. Numbers in parentheses below refer to the numbers on the sketch.
  - (1) R.V.T. Line of Alert for the Taszar Division.
  - (2) R.V.K. Line of Alert for the Kecskemet Division:
  - (3) I.V.T. Line of Controlled Intercept for the Taszar Division or the Sarmellek Regiment.
  - (4) E.V.T. Line of Actual Intercept for the Taszer Division or the Sarmellek Regiment.
  - (5) I.V.K. Line of Controlled Intercept for the Kecskemet Division or its Regiments at KALOCSA (N 46-32, E 18-59) or KISKUNLACHAZA (N 47-11, E 19-00).
  - (6) E.V.K. Line of Actual Intercept for the Kecskemet Division.
  - (7) L.V. 2/3 T. Break-off Line for 2/3 of the Taszar Division.
  - (8) B.V.Cs. Line of Actual Intercept for Czechoslovak fighter units.
  - (9) L.V. 1/3 T. Break-off Line for the last third of the Taszar Division.
  - (10) L.V. 2/3 K. Break-off Line for the 2/3 of the Kecskemet Division.

#### Planned Intercept from Direction No. 6

14. Inclosure No. 7 is a sketch of a planned ground-controlled intercept from Direction No. 6. Numbers in parentheses below refer to numbers on the sketch.

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- (1) R.V.K. Line of Alert for the Kecskemet Fighter Division to include the Kalocsa and Kiskunlachaza Regiments.
- (2) I.V.K. Line of Controlled Intercept for the Kecskemet Division.
- (3) R.V.T. Line of Alert for the Taszar Division.
- (4) E.V.K. Line of Actual Intercept for the Kecskemet Division.
- (5) E.V.T. Line of Actual Intercept for the Taszar Division.
- (6) L.V. 2/3 K. Break-off line for 2/3 of the Kecskemet Division.
- (7) E.V. Cs. Line of Actual Intercept for Czechoslovakia.
- (8) L.V. 1/3 K. Break-off Line for the last third of the Kecske-met Division.
- (9) L.V. 2/3 T. Break-off Line for 2/3 of the Taszar Division.

## Planned Intercept from Direction No. 7.

Inclosure No. 8 is a memory sketch of a planned ground—controlled intercept from Direction No. 7. Numbers in parentheses below refer to numbers on the sketch.

- (1) R.V.K. Line of Alert for the Kecskemet Division.
- (2) I.V.K. Line of Controlled Intercept for the Kecskemet Division.
- (3) E.V.K. Line of Actual Intercept for the Kecskemet Division.
- (4) E.V.Cs. Line of Actual Intercept for Czechoslovakia
- (5) L.V. 2/3 K. Break-off Line for 2/3 of the Kecskeme\* Division.

#### Nine Inclosures:

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- 1. sketch of seven main directions of expected aerial attack against or through Hungary.
- 2. sketch of fighter intercept plan for direction
- 3.-8. sketches of fighter intercepts from six other directions.
- 9. sketch of ground-controlled intercept exercise.

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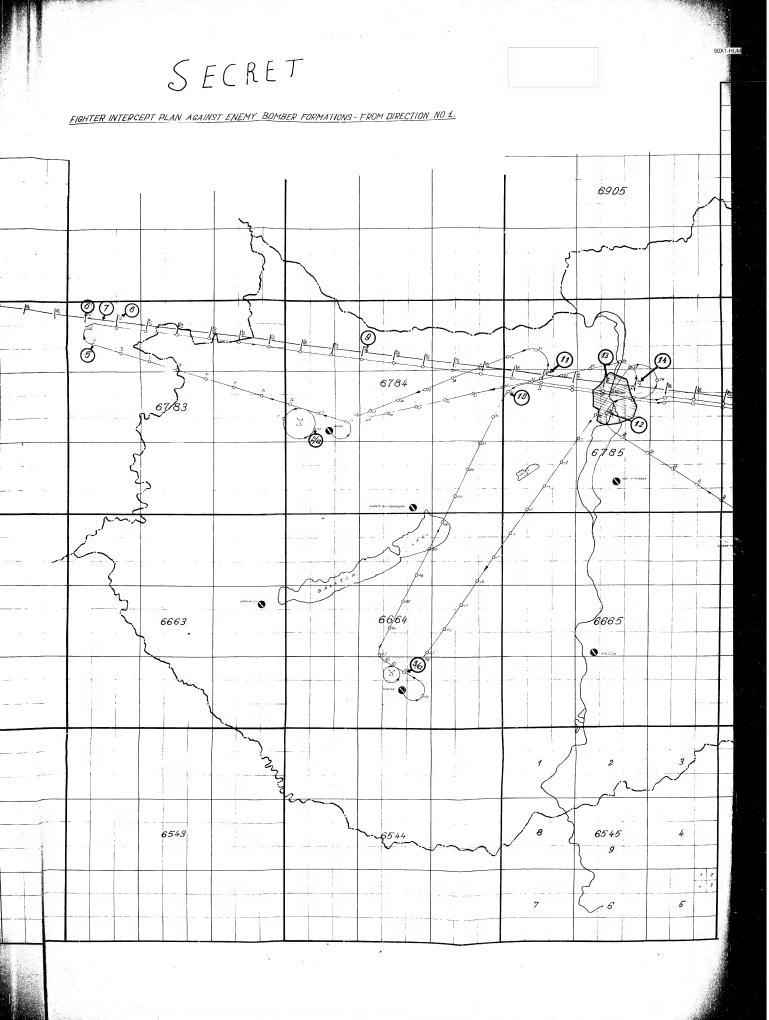
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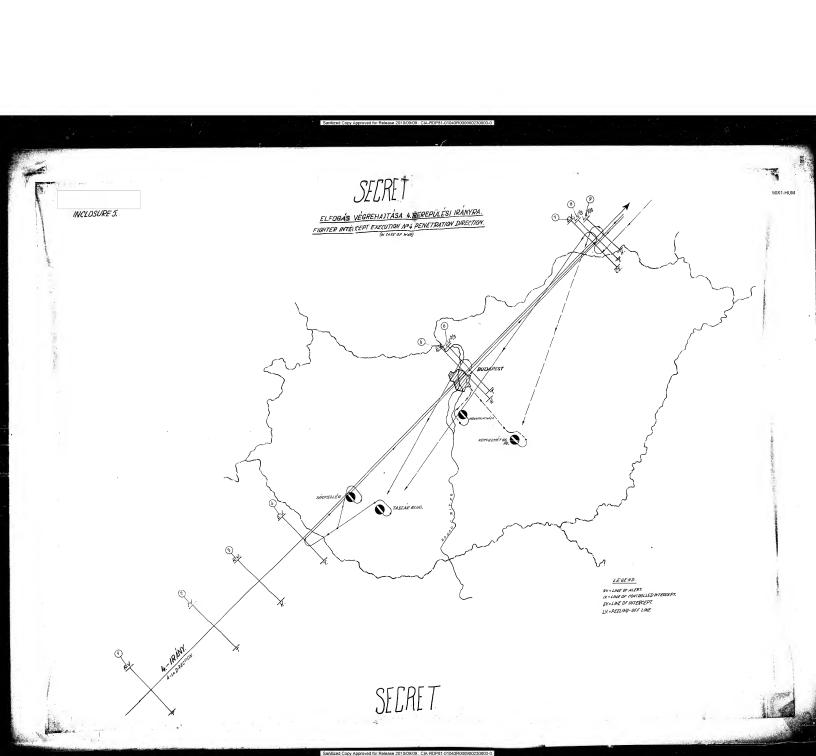
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